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Dept. of Applied Earth Sciences
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Stanford, CA 94305

SKYLAB

MONTHLY REPORT # 5-6 (DECEMBER 1973 and JANUARY 1974)

A. TITLE: FEASIBILITY OF USING S-191 INFRARED SPECTRA FOR GEOLOGICAL
STUDIES FROM SPACE

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C. PROPOSAL #9641 Contract # NAS 9-13357

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Code TF 6
Johnson Spacecraft Center
Houston, Texas 77058

E. PERIOD: December 1, 1973-January 31, 1974

Remote Sensing Laboratory

Stanford University

Stanford, California 94305

(E74-10285) FEASIBILITY OF USING S-191
INFRARED SPECTRA FOR GEOLOGICAL STUDIES
FROM SPACE Monthly Reports, Dec. 1973
and Jan. 1974 (Stanford Univ.) 3 p HC
\$3.00

N74-16028

Unclas
00285

CSCS 08G G3/13

G. DATA RECEIVED TO DATE

	AIRCRAFT RB57					SKYLAB				S191
	Films	Boresight Film	Data Logs	Data Tapes	16mm.C.R.T. Plots	I.R. R57 Data Images	S190A	S190B	S191 Data Tapes	Boresight Film
SL2	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	R.	N.R.	7 track (1 set of 2)*	R.
SL3	R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	7 track (3 sets of 2)	R.

*Received unordered test tape and data tape (S192) from SL2 which we would like to retain for 3 months.

R.=Received

N.R=Not Received

F. OVERALL STATUS (Problem areas, significant progress)

Over the period from late December-early January we obtained access to a PDP 10 computer on Stanford Campus. Programs were written for on line recording of tapes, enabling quick access to any portion of tape (scan), and display of reduced data. The tapes ordered were 7 track. As the Magtape units on the PDP 10 are 9 track, tapes had to be converted to 9 track. Since no aircraft data has been received to date, it would be desirable to have the data request changed from 7 track CCT to 9 track CCT, if possible. With the new on line system data reduction is rapid, and results can be presented and tailored to suit investigators.

Boresight films have been examined.

G. DATA RECEIVED TO DATE

See next page.

H. RECOMMENDATIONS (Decisions/Actions required to ensure attainment of scientific objectives).

Forthcoming aircraft data tapes to be 9 track, if possible.

I. EXPECTED ACCOMPLISHMENTS FOR NEXT PERIOD

Analysis of SL3 data continuing.

J. SIGNIFICANT RESULTS

None as yet.

K. SUMMARY OF FUTURE EFFORT

1. Completion and use of software for semi-automatic analysis of RB57 and SL3 data tapes.
2. Ground truth measurements using spectrometer, and correlation of these results with RB57 and SL3 data.

L. TRAVEL SUMMARY AND PLANS

Field work for ground measurements using spectrometer.